AMENDMENT TO THE CLAIMS

The following listing of claims replaces all prior versions and listings of the claims in this application:

Listing of Claims:

Claims 1. through 15. (Cancelled)

16. (Currently Amended) A method of forming an organic molecule, comprising contacting a hydrolase enzyme with an organic reactant, wherein:

the organic reactant is selected from the group consisting of:

(CH₃)₂Si(OCH₃)₂; (CH₃)(CF₃CH₂CH₂)Si(OCH₃)₂; (C₆H₅)(CH₃)Si(OCH₃)₂;

(CH₃CH₂)₂Ge(OCH₂CH₃)₂; (CH₃)Si(OCH₂CH₃)₃; Si(OCH₂CH₃)₄; 1,3,5,7-tetramethyl-

1,3,5,7-tetramethoxy-cyclotetrasiloxane; 1,3-bis(hydroxy)tetramethyldisiloxane;

[(HO)₂(CH₃)SiO]₃SiCH₃, (Me₃SiO(CH₂CH₂O)₄CH₃), 3-

glycidoxypropyldimethylethoxysilane, 1,1-dimethyl-1-sila-2-oxacyclohexane,

trimethylsilanol, trimethylethoxysilane or a combination thereof;

the hydrolase enzyme is selected from the group consisting of: *Candida antarctica* lipase, *Candida antarctica* lipase B, *Rhizomucor miehei* lipase, wheat germ lipase, trypsin, cutinase, pepsin, papain, or a combination thereof; and

the hydrolase enzyme catalyzes the hydrolysis and condensation of the organic reactant to form the organic molecule.

- 17. (Cancelled)
- 18. (Cancelled)
- 19. (Previously Presented) The method according to claim 16, wherein the hydrolase enzyme is trypsin.
- 20. (Cancelled)

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21. (Original) The method according to claim 16, wherein the concentration of hydrolase

enzyme is equal to or greater than 1 mg/mL.

22. (Original) The method according to claim 21, wherein the concentration of hydrolase

enzyme is from about 20 mg/mL to about 60 mg/mL.

23. (Cancelled)

24. (Previously Presented) The method according to claim 16, wherein the organic reactant to

enzyme mole ratio is less than or equal to about 40000:1.

25. (Original) The method according to claim 16, wherein the reaction is conducted at a pH

from about 5.0 to about 8.0.

26. (Cancelled)

27. (Previously Presented) The method according to claim 16, wherein the reaction is

conducted in an aqueous solution or a solvent.

28. (Original) The method according to claim 16, wherein the reaction is conducted at a

temperature of between about 5°C to about 90°C.

29. (Original) The method according to claim 28, wherein the reaction is conducted at a

temperature of between about 20°C to about 50°C.

30. (Original) The method according to claim 29, wherein the reaction is conducted at a

temperature of about 25°C.

31. (Currently Amended) A method of forming an organic intermediate molecule,

comprising contacting a hydrolase enzyme with an organic reactant, wherein:

the organic reactant is selected from the group consisting of:

(CH₃)₂Si(OCH₃)₂; (CH₃)(CF₃CH₂CH₂)Si(OCH₃)₂; (C₆H₅)(CH₃)Si(OCH₃)₂;

(CH₃CH₂)₂Ge(OCH₂CH₃)₂; (CH₃)Si(OCH₂CH₃)₃; Si(OCH₂CH₃)₄; 1,3,5,7-tetramethyl-

1,3,5,7-tetramethoxy-cyclotetrasiloxane; 1,3 bis(hydroxy)tetramethyldisiloxane;

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[(HO)₂(CH₃)SiO]₃SiCH₃, (Me₃SiO(CH₂CH₂O)₄CH₃), 3glycidoxypropyldimethylethoxysilane, 1,1-dimethyl-1-sila-2-oxacyclohexane, trimethylethoxysilane or a combination thereof,

the hydrolase enzyme is selected from the group consisting of *Candida antarctica* lipase, *Candida antarctica* lipase B, *Rhizomucor miehei* lipase, wheat germ lipase, trypsin, cutinase, pepsin, papain, or a combination thereof; and

the hydrolase enzyme catalyzes the hydrolysis of the organic reactant to form the organic intermediate molecule.

32. (Currently Amended) A method of forming an organic molecule, comprising contacting a hydrolase enzyme with an organic intermediate reactant, wherein:

the organic intermediate reactant is selected from the group consisting of:

 $\frac{(CH_3)_2Si(OH)_2; (CH_3)(CF_3CH_2CH_2)Si(OH)_2; (C_6H_5)(CH_3)Si(OH)_2;}{(CH_3CH_2)_2Ge(OH)_2; (CH_3)Si(OH)_3, (CH_3)_2Si(OH_2)_2; (CH_3)(CF_3CH_2CH_2)Si(OH_2)_2;}{(C_6H_5)(CH_3)Si(OH_2)_2; (CH_3CH_2)_2Ge(OH_2)_2; (CH_3)Si(OH_2)_3; Si(OH)_4; 1,3,5,7-tetramethyl-1,3,5,7-tetrahydroxy-cyclotetrasiloxane; 1,3-bis(hydroxy)tetramethyldisiloxane; [(HO)_2(CH_3)SiO]_3SiCH_3, 3-glycidoxypropyldimethylsilanol, HO(CH_2)_4(CH_3)_2SiOH, trimethylsilanol, or a combination thereof,$

the hydrolase enzyme is selected from the group consisting of *Candida antarctica* lipase, *Candida antarctica* lipase B, *Rhizomucor miehei* lipase, wheat germ lipase, trypsin, cutinase, pepsin, papain, or a combination thereof; and

the hydrolase enzyme catalyzes the condensation of the organic intermediate reactant to form the organic molecule.

33. Cancelled

34. (Currently Amended) A The method of claim 1 forming an organic molecule, comprising contacting a hydrolase enzyme comprising trypsin, cutinase, or a combination thereof, with an 5 wherein the organic reactant is selected from the group consisting of: (CH₃)₂Si(OCH₃)₂; (CH₃)(CF₃CH₂CH₂)Si(OCH₃)₂; (CH₃CH₂)₂Ge(OCH₂CH₃)₂;

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 $(CH_3)Si(OCH_2CH_3)_3$; $Si(OCH_2CH_3)_4$; -1,3,5,7-tetramethyl-1,3,5,7-tetramethoxy-cyclotetrasiloxane; 1,3-bis(hydroxy)tetramethyldisiloxane; $[(HO)_2(CH_3)SiO]_3SiCH_3$, $(Me_3SiO(CH_2CH_2O)_4CH_3)$, 3-glycidoxypropyldimethylethoxysilane, 1,1-dimethyl-1-sila-2-oxacyclohexane,trimethylsilanol, trimethylethoxysilane or a combination thereof; wherein the hydrolase enzyme catalyzes the hydrolysis and condensation of the organic reactant to form the organic molecule.

35. Cancelled